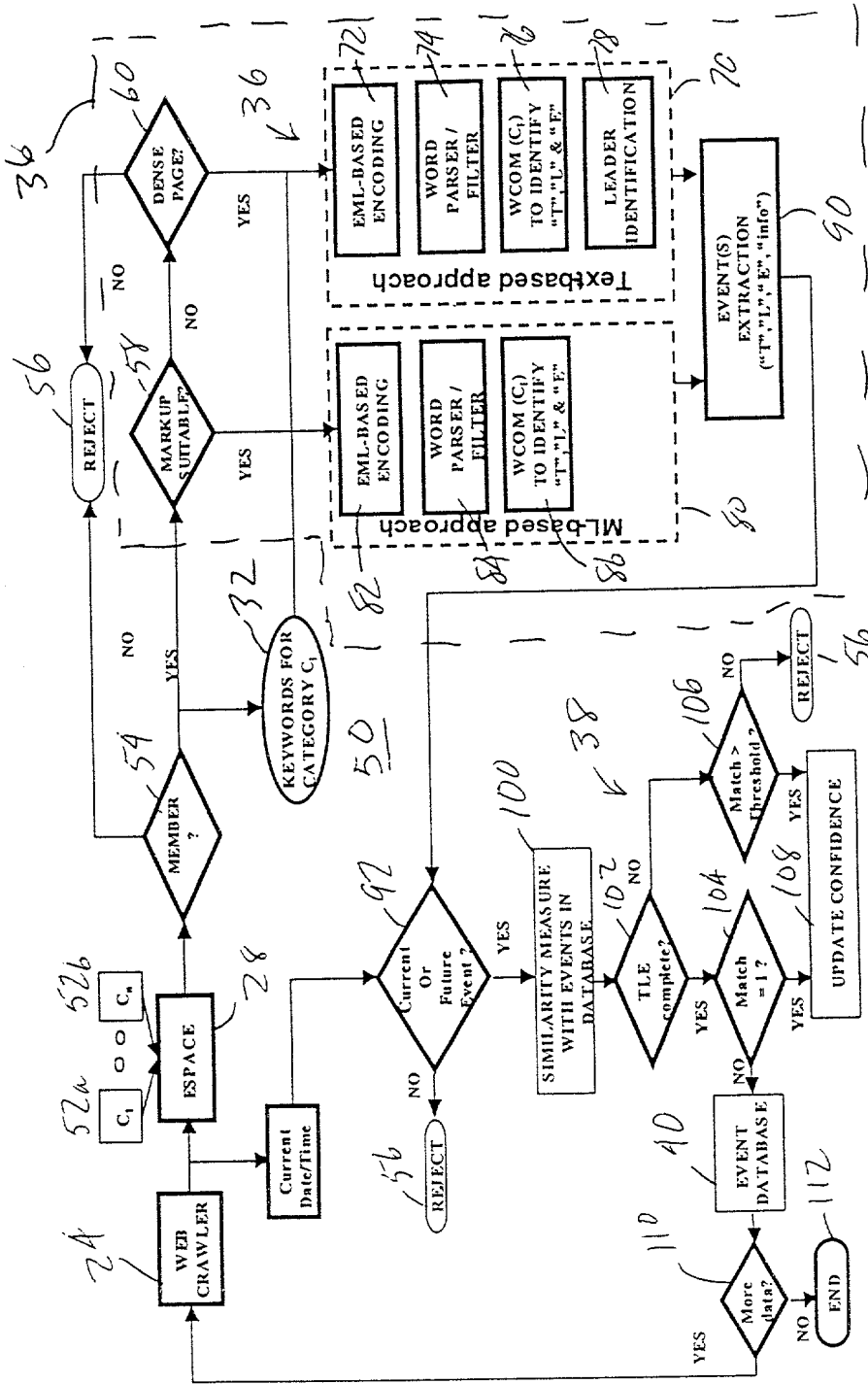


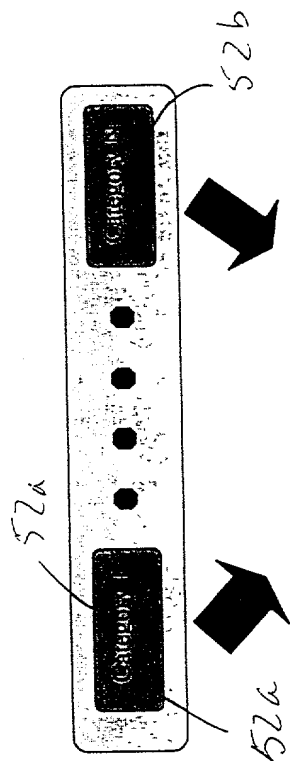
FIG. 1



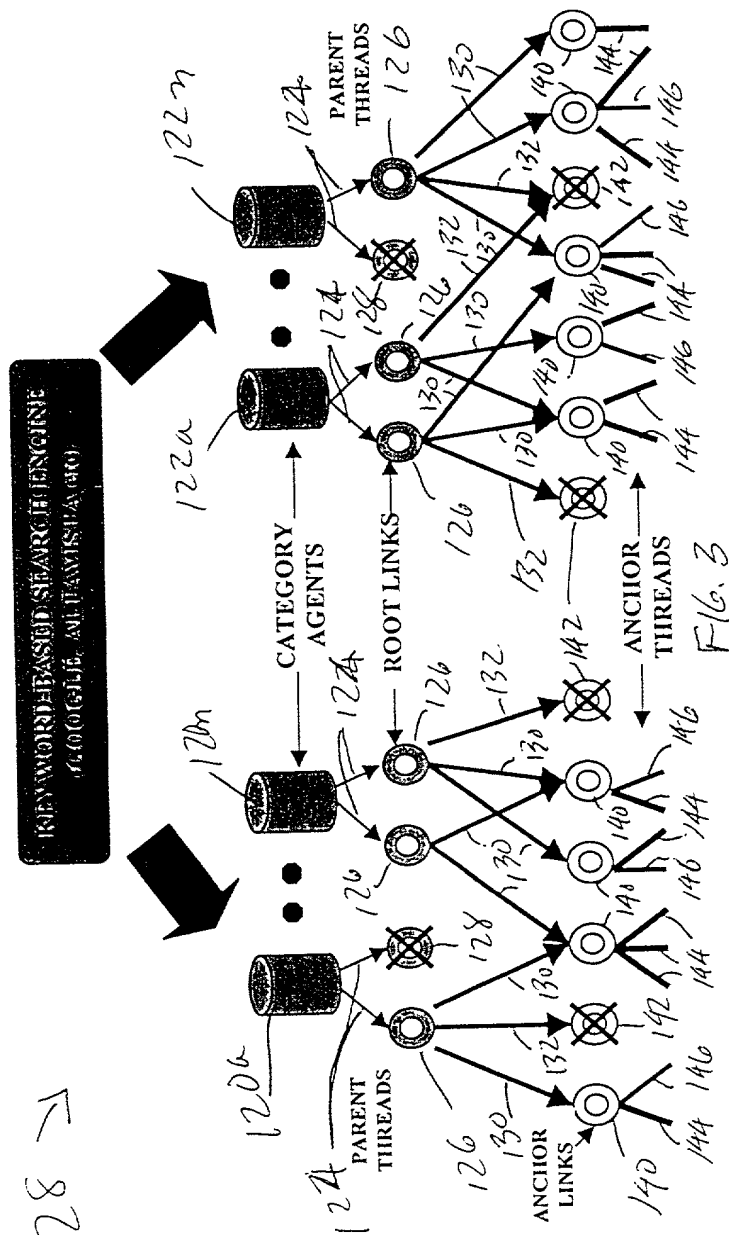
WCOM - Word Co-occurrence model; C-CATEGORY; L- LOCATION; T-TIME; E- EVENT
ML - Markup Language; EML - Event Markup Language; ESPACE - Event Space

FIG. 2

S **O** **P** **E** **R**



28



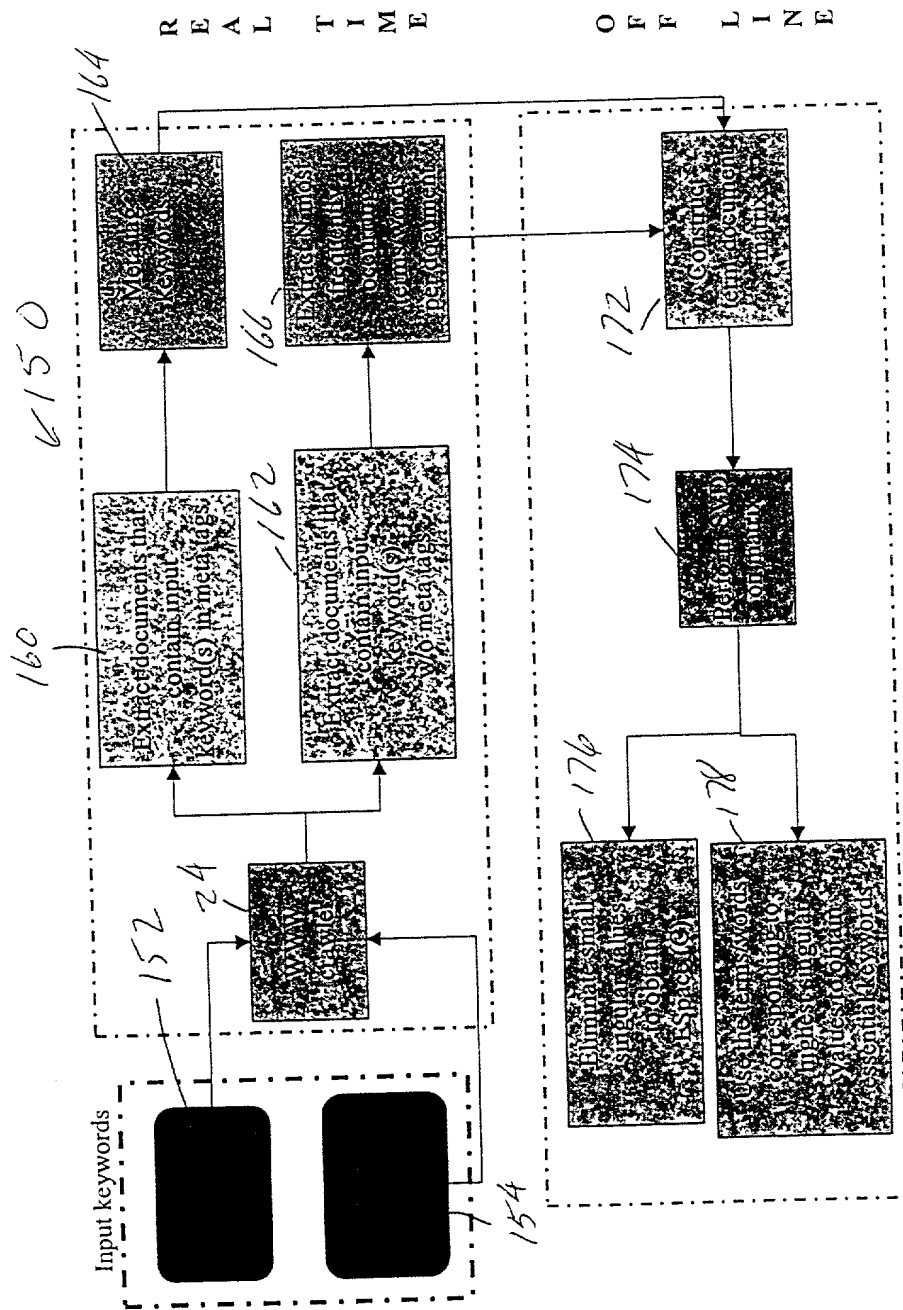


FIG. 4

10026055 4 23 1991

PGA TOUR SENIOR PGA TOUR BUY.COM TOUR LPGA EUROPEAN PGA TOUR golf golfing tournaments golf balls golf clubs sports golf courses tee times golf companies Masters US Open U.S. Open PGA Championship TPC World Championships of Golf British Open Pebble Beach Tiger Woods Greg Norman Fred Couples Davis Love III John Daly David Duval Ernie Els Tom Lehman Justin Leonard Phil Mickelson Arnold Palmer Jack Nicklaus Byron Nelson PGA TOUR SENIOR PGA TOUR BUY.COM TOUR LPGA EUROPEAN PGA TOUR golf golfing tournaments golf balls golf clubs sports golf courses tee times golf companies Masters US Open U.S. Open PGA Championship TPC World Championships of Golf British Open Pebble Beach Tiger Woods Greg Norman Fred Couples Davis Love III John Daly David Duval Ernie Els Tom Lehman Justin Leonard Phil Mickelson Arnold Palmer Jack Nicklaus Byron Nelson PGA TOUR golfing tournaments golf balls golf clubs golf courses tee times golf companies sports stats scores news Tiger Woods PGA PGA PGA Jack Nicklaus Golf PGATour.com golf CBS Sports Olympics winter olympics Nagano NFL NFL football AFC AFC football NFL on CBS Super Bowl times races events iaaf track field dashes grand prix cbs television television sports cbs tv CBS coverage sports television listings weekend events cbs sports television TV listings sports programming television programming golf fantasy golf free fantasy golf Golf fantasy sports tiger woods free fantasy sports golf games golf game free golf games free on-line golf tournament golf free golf league free sports league internet golf free internet golf

FIG. 5

A

Term No	Term	Document	1	2	3	4	5
1	*fantasy	0	0	0	0	0	0
2	AFC	0	0	0	0	0	0
3	American	0	0	0	0	0	0
4	amp	0	0	0	0	0	0
5	Andersen	0	0	0	0	0	0
6	Annika	1	1	0	0	0	1
7	Architects	0	0	0	0	0	0
8	Architecture	0	0	0	0	0	0
9	Arnold	0	0	0	0	0	0
10	athletics	0	0	0	0	0	0
11	Audio	4	4	1	1	0	0
12	Auto	0	0	0	1	0	0
13	Baird	0	0	0	0	0	0
14	balls	0	0	0	0	0	0
15	baseball	0	0	0	0	0	0
16	baseball	0	0	0	1	0	0
17	Beach	0	0	0	0	0	0

FIG. 6

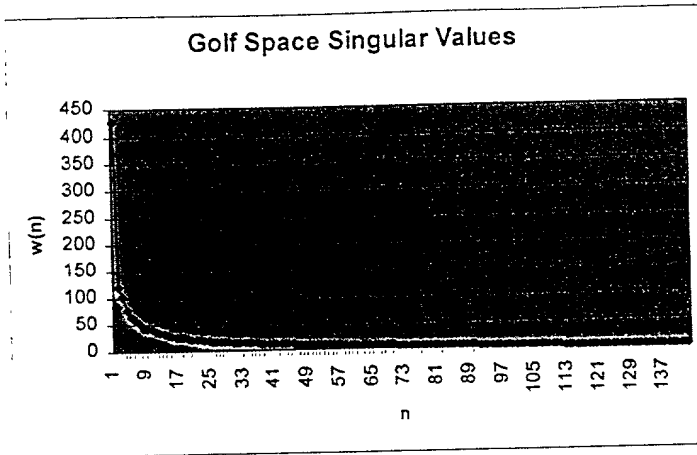


FIG. 7

Most Significant Vector		Least Significant Vector	
Term	U1	Term	U143
TOUR	-0.708527 golf	0.505325 CLASSIC	-0.521767 amp
PGA	-0.538327 CLASSIC	0.344658 golf	-0.466427 Bowling
golf	-0.250845 Woods	0.3389 Open	-0.36307 Glasson
SENIOR	-0.216432 Open	0.321522 PGA	0.256941 Glen
players	-0.118856 PGA	-0.30569 Woods	0.235053 Furyk
Open	-0.088181 Tiger	0.256206 TOUR	-0.202793 Auld
CLASSIC	-0.083555 Masters	0.230828 Tiger	0.192401 Daly
tournament	-0.074531 Championship	0.145056 Championship	-0.190288 Bies
tee	-0.073739 TOUR	-0.144758 SENIOR	-0.160201 Inkster
pro	-0.065451 Audio	0.115836 Masters	0.123855 Lowe
World	-0.058481 LPGA	0.090278 O	-0.120203 S
LPGA	-0.058072 World	0.090209 sports	0.10208 companies
tournaments	-0.057108 WORLDCOM	0.089487 Play	-0.072621 athletics
EUROPEAN	-0.055566 Play	0.080426 free	0.06532 College
equipment	-0.05216 tee	0.075594 U	-0.061127 baseball
Official	-0.047328 EUROPEAN	0.071835 Fantasy	0.060642 league
events	-0.046162 Official	-0.064779 EUROPEAN	-0.054842 Consulting
Championship	-0.045321 O	0.06464 clubs	0.054342 Cyberviewer

FIG. 8

1002005 121901

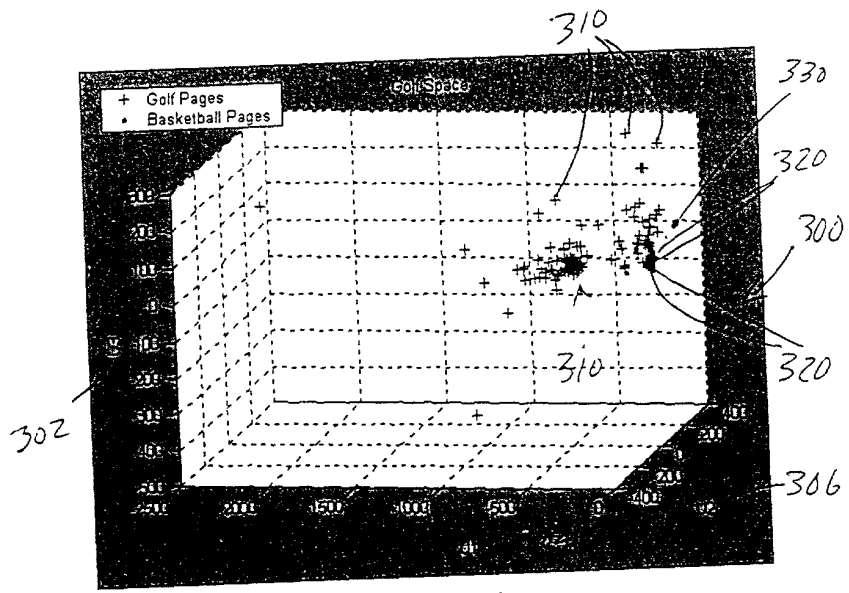


FIG. 9

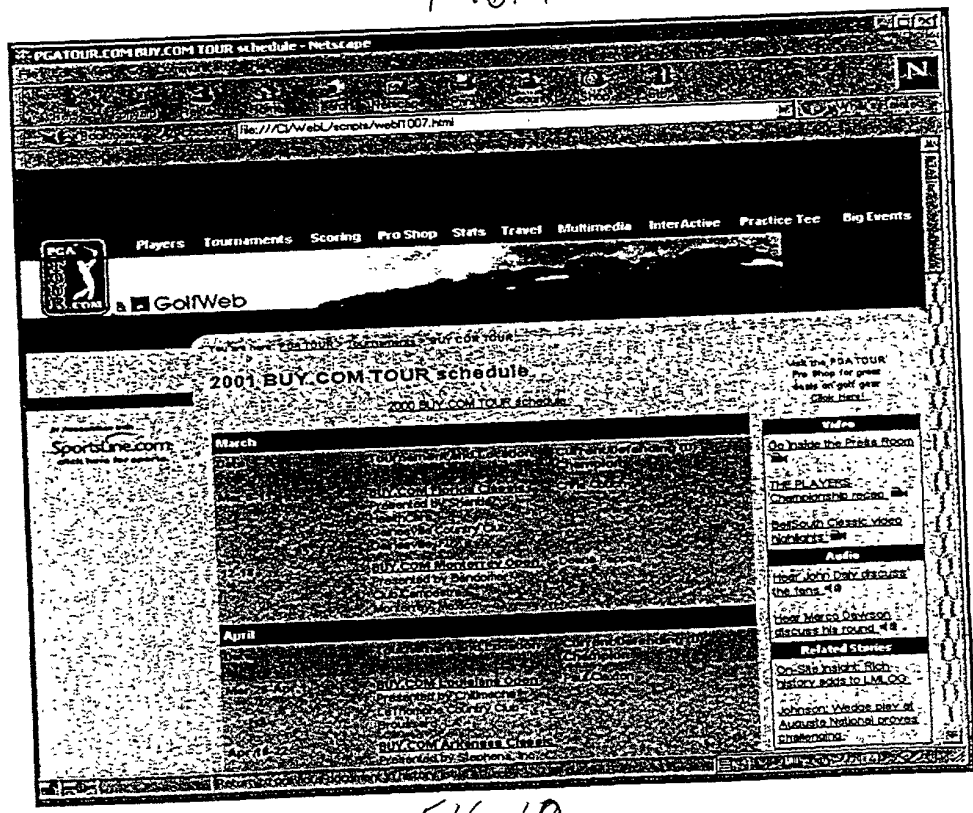


FIG. 10

FOUO 10030001

TEXT FROM WORD PARSER

```
["PGATOUR.COM(W)11", "PGA(W)3", "TOUR(W)4",  
"  
<!(W)3", "  
var(W)4", "vTag(W)4", "= (W)1",  
"exclusive="no";(W)15", "select(W)6",  
  
  (W)2", "SENIOR(W)6", "TOUR(W)4", "  
(W)2", "BUY.COM(W)7", "  
(W)2", "LPGA(W)4", "  
(W)2", "European(W)8", "  
(W)2", "Other(W)5", "|  
(W)3", "Buy(W)3", "Tickets(W)7", "|  
(W)3", "  
  
"1(d)1", "7(d)1", "World(W)5", "Golf(W)4",  
"Championships:(W)14", "Accenture(W)9",  
"Match  
(W)6", "Play(W)4", "Championship(E)12", "  
  (W)2", "Metropolitan(W)12",  
"Golf(W)4", "Club(W)4", "  
  (W)2", "Melbourne(c)9",  
"Australia(C)9", "  
  (W)2", "ESPN/ABC  
(W)9", "St.(c)3", "Paul(c)4", "West(W)4",  
"Coast(W)5", "Swing(W)5", "Event(W)5",  
"Steve(W)5", "Stricker(W)8", "8(d)1",  
"14(d)2", "Mercedes(W)8",  
"Championships(E)13", "  
  (W)2", "Plantation(W)10",  
"Course(W)6", "Kapalua(W)7", "  
  (W)2", "Kapalua(W)7", "HI(S)2"
```

350

FIG. 11(a)

CORE EML ALPHABETS

TIME: M- MONTH, D- DAY, d- DATE, Y- YEAR, m- minutes, h -
hours

LOCATION: C- COUNTRY, S- STATE, c- city

EVENT: E- EVENT KEYWORD (e.g., CHAMPIONSHIP)

OTHER: W

FIG. 11(b)

10026065-131901

EML BASED ENCODING OF TEXT ABOVE

W30 d W5 d W4 d W18 d W135 E W60 d
W74 E W1 E W2 E W2 E W67 M d W66 Y
W3 c c W9 M W1 E W4 d d W6 E W5 c C
W2 c c W6 d d W1 E W6 S

• • • •

FIG. 11(c)

360

WORD CO-OCCURENCE MODELS FOR GOLF EVENTS

TIME: MdMd, dMd, Mdd, dd = T
LOCATION: cC, csC, cS, S, C = L
EVENT: E
OTHER: Wn

FIG. 12(a)

370

EML BASED ENCODING WITH INTER-LEVEL
WORD CO-OCCURRENCE MODELS FOR GOLF

W30 d W5 d W4 d W18 d W135 E W60 d W74 E
W1 E W2 E W2 E W67 M d W66 Y W3 cc W9 M
W1 E W4 T W6 E W5 L W2 cc W6 T W1 E W6 L

• • • •

FIG. 12(b)

380

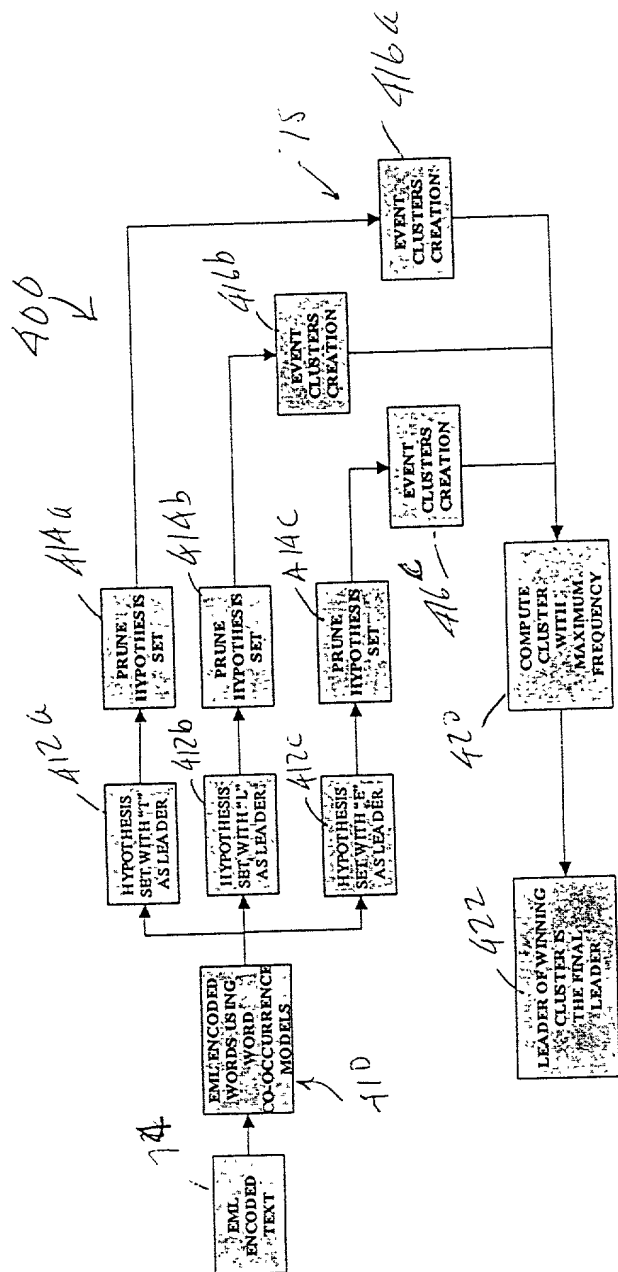


FIG. 13

Scheduled Event Page

NEW! Click here to find out more about the 2001 PGA TOUR

2001 PGA TOUR schedule

Tour	Date	Location	Category	Prize Money
PGA TOUR	April 2-8	Masters Tournament	GA	\$1,000,000
Augusta National Golf Club	August 16-22	Shell Houston Open	TX	\$1,000,000
TPC at Woodlands	April 23-29	Greater Greensboro Chrysler Classic	NC	\$1,000,000
Forest Oaks Country Club	June 4-10	FedEx St. Jude Classic	TN	\$1,000,000
TPC at Southwind Memphis	June 14-17	U.S. Open Championships	USGA	\$1,000,000
Southern Hills Country Club	June 18-24	Buick Classic	NY	\$1,000,000
Westchester Country Club	June 25-July 1	Canon Greater Hartford Open	CT	\$1,000,000
TPC at River Highlands	July 16-22	B.C. Open	NY	\$1,000,000
En Jole Golf Club	July 30-Aug. 5	International	CO	\$1,000,000
Castle Pines Golf Club	Aug. 12-18	Castle Rock	CO	\$1,000,000

F16 14(b)

F16 14(a)

Extracted times, locations, categories & info

TLC#1: ["April 2 8", " Masters Tournament", "GA",
"Augusta National Golf Club Augusta"]

TLC#2: ["April 16 22", " Shell Houston Open", "TX", "TPC
at Woodlands"]

TLC#3: ["April 23 29", " Greater Greensboro Chrysler
Classic", "NC", "Forest Oaks Country Club Greensboro"]

TLC#4: ["June 4 10", " FedEx St. Jude Classic", "TN",
"TPC at Southwind Memphis "]

TLC#5: ["June 14 17", " U.S. Open Championships* (USGA
Tournament", "OK", "Southern Hills Country Club Tulsa "]

TLC#6: ["June 18 24", " Buick Classic", "NY",
"Westchester Country Club Harrison "]

TLC#7: ["June 25 July 1 ", " Canon Greater Hartford
Open", "CT", "TPC at River Highlands Cromwell "]

TLC#8: ["July 16 22", " B.C. Open", "NY", "En Jole Golf
Club Endicott "]

TLC#9: ["July 30 Aug. 5 ", " International", "CO", "
Castle Pines Golf Club Castle Rock "]